

SEARCH REQUEST FORM

Scientific and Technical Information Center

Access DB#

Requester's Full Name: Mark Clark Examiner #: 69462 Date: 6/6/2003
 Art Unit: 1616 Phone Number 303-4550 Serial Number: 09/937 762
 Mail Box and Bldg/Rm Location: CUI - 2D11 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples of relevant citations, authors, etc., if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

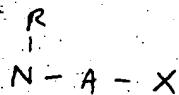
Title of Invention:

Inventors (please provide full names): attashed

Earliest Priority Filing Date:

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

- Agricultural compositions comprising adjuvants of the formula:



$$A = -C_{1-4} - (O-Alk)_a$$

Alk = Et/Pr/Bu



$$R = -(A-O)_{0-1} - H/C_{1-6}$$

- Claims (or specifically claimed adjuvant compounds) are attached.

$$(IA) \quad X = -O-H/C_{1-6}$$

$$(IB) \quad X = -(C_{1-4})_{0-1} - N/R$$

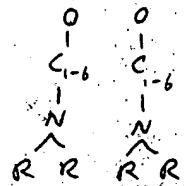
- B.1. Data Sheet attached

$$(IC) \quad X = -O-C_1-C_1-C_1-$$

- Adjuvants are used with herbicides such as: glyphosate, fomesafen, paraquat (cl. 14)

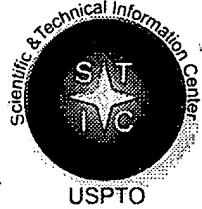
$$a: \text{ for IA, IB: } a = 1 \text{ to } 400$$

$$\text{for IC: sum of all } a's = 3 \text{ to } 400$$



STAFF USE ONLY

Type of Search	Vendors and cost where applicable
NA Sequence (#)	STN <u>1473.42</u>
AA Sequence (#)	Dialog
Structure (#)	Questel/Orbit
Bibliographic	Dr. Link
Litigation	Lexis/Nexis
Fulltext	Sequence Systems
Patent Family	WWW/Internet
Other	Other (specify)



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 96022

TO: Mark Clardy
Location: CM1/2D11/2D19
Art Unit: 1616
Tuesday, June 17, 2003
Case Serial Number: 937762

From: Paul Schulwitz
Location: Biotech-Chem Library
CM1-6B06
Phone: 305-1954

paul.schulwitz@uspto.gov

Search Notes

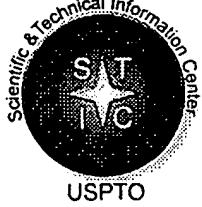
Examiner Clardy,

See attached results.

If you have any questions about this search feel free to contact me at any time.

Thank you for using STIC search services!

Paul Schulwitz
Technical Information Specialist
STIC Biotech/Chem Library
(703)305-1954



STIC SEARCH RESULTS FEEDBACK FORM

Biotech-Chem Library

Questions about the scope or the results of the search? Contact **the searcher or contact:**

Mary Hale, Information Branch Supervisor
308-4258, CM1-1E01

Voluntary Results Feedback Form

➤ *I am an examiner in Workgroup:* *Example: 1610*

➤ *Relevant prior art found, search results used as follows:*

- 102 rejection
- 103 rejection
- Cited as being of interest.
- Helped examiner better understand the invention.
- Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- Foreign Patent(s)
- Non-Patent Literature
(journal articles, conference proceedings, new product announcements etc.)

➤ *Relevant prior art not found:*

- Results verified the lack of relevant prior art (helped determine patentability).
- Results were not useful in determining patentability or understanding the invention.

Comments:

Drop off or send completed forms to STIC/Biotech-Chem Library CM1 – Circ. Desk





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Bib Data Sheet

CONFIRMATION NO. 5699

SERIAL NUMBER 09/937,762	FILING DATE 01/29/2002 RULE	CLASS 504	GROUP ART UNIT 1616	ATTORNEY DOCKET NO. 109846.998
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APPLICANTS

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 Michael John Bean, Greensboro, NC;

**** CONTINUING DATA *******

THIS APPLICATION IS A 371 OF PCT/GB00/01062 03/21/2000

**** FOREIGN APPLICATIONS *******

Foreign Priority claimed	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	STATE OR COUNTRY UNITED KINGDOM	SHEETS DRAWING	TOTAL CLAIMS 16	INDEPENDENT CLAIMS 1
35 USC 119 (a-d) conditions met	<input checked="" type="checkbox"/> yes, <input type="checkbox"/> no <input type="checkbox"/> Met after Allowance				

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TITLE

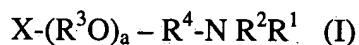
Agrochemical composition

FILING FEE RECEIVED 1372	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:	<input type="checkbox"/> All Fees <input type="checkbox"/> 1.16 Fees (Filing) <input type="checkbox"/> 1.17 Fees (Processing Ext. of time) <input type="checkbox"/> 1.18 Fees (Issue) <input type="checkbox"/> Other _____ <input type="checkbox"/> Credit
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Appendix 1 - Clean Version of all Pending Claims

1. (Amended) An agrochemical composition comprising an agrochemical active ingredient and an adjuvant of formula (I) or salts thereof



wherein R¹ and R² are independently hydrogen or a lower alkyl group or a group X'-(R³O)_a-R⁴ -
wherein R³ and R⁴ respectively may take any of the values of R³ and R⁴ as hereinafter defined
and wherein X' is -OH or a lower alkoxy group containing from 1 to 6 carbon atoms and a' is
from 0 to 400

R³O is an ethoxy, propoxy or butoxy group or a random or block mixture thereof,

R⁴ is a linear or branched chain alkylene bridging group containing from 1 to 4 carbon atoms, X
is

(IA) -OH or a lower alkoxy group containing from 1 to 6 carbon atoms or X is

(IB) a group R⁵R⁶N- or R⁵R⁶N-R⁷-

wherein R⁵ or R⁶ are independently hydrogen or a lower alkyl group or a group X'-(R³O)_a-R⁴ -
as hereinbefore defined wherein X' is -OH or a lower alkoxy group containing from 1 to 6
carbon atoms,

and R⁷ is a linear or branched chain alkylene bridging group containing from 1 to 4 carbon
atoms

or X is

(IC) a group

CR¹⁶R¹⁷-O-

|
CR¹⁸-(R²¹)_d-O-(R⁸O)_b-R⁹-NR¹⁰R¹¹

|
CR¹⁹R²⁰-O-(R¹²O)_c-R¹³-NR¹⁴R¹⁵

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wherein R¹⁰, R¹¹, R¹⁴ and R¹⁵ are independently hydrogen or a lower alkyl group or a group X' - (R³O)_a-R⁴ - as hereinbefore defined wherein X' is -OH or a lower alkoxy group containing from 1 to 6 carbon atoms,

H
and R⁸ and R¹² are independently alkyl groups containing from 1 to 4 carbon atoms and R⁹, R¹³ and R²¹ are independently a linear or branched chain alkylene bridging group containing from 1 to 6 carbon atoms, R¹⁶, R¹⁷, R¹⁸, R¹⁹ and R²⁰ are independently hydrogen or a lower alkyl group and d is 0 or 1

and wherein a, is from 1 to 400 or if X is of formula IC, the sum of a, b and c is from 3 to 400.

2. A composition according to claim 1 wherein

X is -OH or a lower alkoxy group containing from 1 to 4 carbon atoms or

X is R⁵R⁶N- wherein R5 and R6 are hydrogen or a lower alkyl group containing from 1 to 4 carbon atoms or

X is a group of formula IC'

CH2 - O-

|
CR¹⁸ - (R²¹)_d - O-(R⁸O)_b-R⁹-NH₂

|
C H₂ - O - (R¹²O)_c-R¹³-NH₂

wherein R⁸O and R¹²O are independently ethoxy, or propoxy or a random or block mixture thereof, R⁹ and R¹³ are independently a linear or branched chain alkylene bridging group containing 2 or 3 carbon atoms, R²¹ is a linear or branched chain alkylene bridging group containing from 1 to 3 carbon atoms, R¹⁸ is hydrogen or lower alkyl containing from 1 to 4 carbon atoms, d is 0 or 1,

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R^1 and R^2 are independently hydrogen or a lower alkyl group containing from 1 to 4 carbon atoms, R^3O is ethoxy, or propoxy or a random or block mixture thereof, R^4 is a linear or branched chain alkylene bridging group containing 2 or 3 carbon atoms and a is from 1 to 400 or if X is of formula IC' , the sum of a , b and c is from 3 to 400.

3. (Amended) A composition according to claim 1 wherein a is from 1 to 50 or if X is of formula IC or IC' respectively, the sum of a , b and c is from 3 to 90 and wherein in the group $X'-(R^3O)_a-$
 R^4 - if present, a is from 0 to 50.

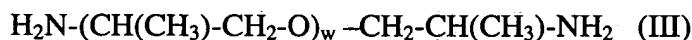
4. (Amended) A composition according to claim 1 wherein the adjuvant of formula (I) is an alkoxylated monoamine, having the formula II



wherein the average degree of ethoxylation (x) is from 0 to about 45 and the average degree of propoxylation (y) is from 0 to about 90 provided that x and y are not both 0 at the same time.

5. A composition according to claim 4 wherein the value of x is from 0 to about 20 and of y is from about 2 to about 30.

6. (Amended) A composition according to claim 1 wherein the compound of formula (I) is a diamine having a formula (III)



wherein w is an average of from about 1 to about 80.

7. A composition according to claim 6 wherein w is an average of from about 2 to about 35.

8. A composition according to claim 1 wherein the compound of formula (I) is a diamine having a formula (IV)

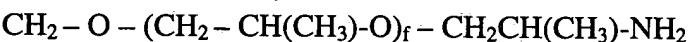
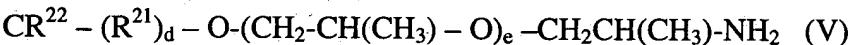
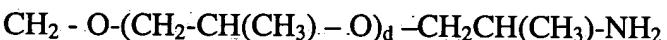


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wherein the sum of r + t is an average of from 1 to 20 propoxy groups and s is an average of from 2 to 50 ethoxy units.

9. A composition according to claim 8 wherein the sum of r + t is from about 2 to about 15 and s is from about 3 to about 20.

10. A composition according to claim 1 wherein the compound of formula (I) is a propoxylated triamine having the formula (V)



wherein the sum of d + e + f is an average of from about 5 to 90, R²² is hydrogen or lower alkyl containing 1 to 4 carbon atoms, R²¹ is a linear or branched chain alkylene bridging group containing 1 to 3 carbon atoms and d is 0 or 1.

11. (Amended) A composition according to claim 1 wherein the proportion of adjuvant of formula (I) or salt thereof to the agrochemical active ingredient is from 1:20 to 3:1 by weight.

12. (Amended) A composition according to claim 1 wherein the adjuvant of formula (I) or salt thereof is used in combination with an alkylpolyglycoside surfactant.

13. A composition according to claim 12 wherein the ratio of the adjuvant of formula (I) to the alkylpolyglycoside surfactant is from 1:40 to 4:1.

14. (Amended) A composition according to claim 1 wherein the agrochemical active ingredient is a salt of glyphosate, a salt of fomesafen or a parquat salt.